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# Math Mammoth Place Value 4

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# Introduction

*Math Mammoth Place Value 4* covers large numbers (up to 1 million) and place value. The book is meant for fourth grade.

The first lessons only deal with thousands, or numbers with a maximum of four digits. These are for review and for deepening the student's understanding of place value. It is crucial that the student understands place value with four-digit numbers before moving on to larger numbers. Then, larger numbers will be very easy to study.

We go on to study numbers up to one million, or numbers that have tens or hundreds of thousands. Students write them in expanded form, compare them, add and subtract them, and learn more about rounding.

Lastly, we study briefly the multiples of 10, 100, and 1,000. This lesson prepares the way for some very important ideas that students need when they study multi-digit multiplication (also a fourth grade topic).

*I wish you success in teaching math!*

*Maria Miller, the author*

## Helpful Resources on the Internet

*Use these free online resources to supplement the “bookwork” as you see fit.*

### Place Value Payoff

Match numbers written in standard form with numbers written in expanded form in this game.

<http://www.quia.com/mc/279741.html>

### Keep My place

Fill in the big numbers in this cross-number puzzle.

<http://www.counton.org/magnet/kaleidoscope2/Crossnumber/index.html>

### Can you say really big numbers?

Enter a really big number, try to say it aloud, and see it written.

<http://www.mathcats.com/explore/reallybignumbers.html>

### Megapenny Project

Visualizes big numbers with pictures of pennies.

<http://www.kokogiak.com/megapenny/default.asp>

### Place value puzzler

Place value or rounding game. Click on the asked place value in a number, or type in the rounded version of the number.

<http://www.funbrain.com/tens/index.html>

### Rounding Sharks

You will be asked to round numbers in the thousands to the nearest hundred. Click on the shark that has the correctly rounded number.

<http://www.free-training-tutorial.com/rounding/sharks.html>

### Rounding Master

A Mathionaire-type game where you answer rounding questions, and try to become a Rounding Master Math Millionaire.

<http://www.mrnussbaum.com/roundingmaster.htm>

### Estimation at AAA Math

Exercises about rounding whole numbers and decimals, front-end estimation, estimating sums and differences. Each page has an explanation, interactive practice, and games.

<http://www.aaamath.com/B/est.htm>

### Maximum Capacity

Drag as many gorillas as you can into the elevator without exceeding the weight capacity. You will have to use your quick addition, estimation, and number sense skills.

<http://www.mrnussbaum.com/maximumcapacity.htm>

### Home Run Derby Math

Estimate answers to math problems. The closer you get, the further your ball will fly at-bat. In addition and subtraction, the numbers are in the thousands. In multiplication, the numbers are in the hundreds.

<http://www.mrnussbaum.com/derby>